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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/937,120	12/17/2001	Tomoyuki Asano	SONY JP -139	6143

530 7590 06/07/2005

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EXAMINER

CHAI, LONGBIT

ART UNIT	PAPER NUMBER
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2131

DATE MAILED: 06/07/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/937,120

Applicant(s)

ASANO ET AL.

Examiner

Longbit Chai

Art Unit

2131

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 26 February 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☐ Claim(s) _____ is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☐ Claim(s) _____ is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☒ Claim(s) 1-178 are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____

DETAILED ACTION

Claims 1 – 178 have been presented for examination.

Election / Restrictions

This application contains claims directed to the following patentably distinct claimed inventions. Restriction to one of the following invention is required under 35 U.S.C 121:

- I. Claims 1 – 46 and 102 – 136 drawn to digital content integrity check associated with the feature of computer program modification detection by cryptography, classified in class 713, subclass 187.
- II. Claims 53 – 56, 64 – 66, 83 – 101 and 137 – 152 drawn to stored data content processing protection using content key derived from either a system common key or an apparatus-specific key and encryption key data, classified in class 713, subclass 193.
- III. Claims 57 and 67 drawn to mutual entity authentication in a data processing system between the host device and slave device using a specific authentication key, classified in class 713, subclass 169.
- IV. Claims 47 – 52, 58 – 63 and 68 drawn to a particular key generator which generates individual keys necessary to execute encryption

processing based on master keys and identification data of the apparatus, classified in class 380, subclass 44.

- V. Claims 69 – 82 drawn to tamper resistant process that verifies the presence or absence of tampering by using an illegal device list included in content data and executes collation processing accordingly, classified in class 713, subclass 194.
- VI. Claims 153 – 178 drawn to digital compressing and expanding processes of data content, classified in class 380, subclass 217.

Inventions I – VI are related as subcombination disclosed as usable together in a single combination. The subcombinations are distinct from each other if they are shown to be separately usable. The following case instants:

Invention I has separate utility such as digital content integrity check associated with the feature of computer program modification detection by cryptography.

Invention II has separate utility such as stored data content processing protection using content key derived from either a system common key or an apparatus-specific key and encryption key data such as $K_{dis}[K_{con}]$, $K_{con}[K_{blc}]$, $K_{str}[K_{blc}]$ and $K_{dis}[K_{blc}]$.

Invention III has separate utility such as mutual entity authentication in a data processing system between the host device and slave device using a specific authentication key.

Invention IV has separate utility such as a particular key generator which generates individual keys necessary to execute encryption processing based on master keys and identification data of the apparatus.

Invention V has separate utility such as tamper resistant process that verifies the presence or absence of tampering by using an illegal device list included in content data and executes collation processing accordingly.

Invention VI has separate utility such as digital compressing and expanding processes of data content.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purpose as indicated is proper.

Art Unit: 2131

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Longbit Chai whose telephone number is 571-272-3788. The examiner can normally be reached on Monday-Friday 8:00am-4:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ayaz R Sheikh can be reached on 571-272-3795. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Longbit Chai
Examiner
Art Unit 2131


LBC


AYAZ SHEIKH
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